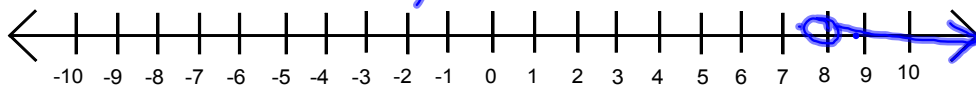


WU ① Solve and graph on ^a $33 < 34 \checkmark$

$$\begin{array}{r} 3(9) + 6 < 4(9) - 2 \\ 3x + 6 < 4x - 2 \\ \underline{-3x \quad -3x} \\ 6 < x - 2 \\ \underline{+2 \quad +2} \\ 8 < x \end{array}$$



② Get y by itself

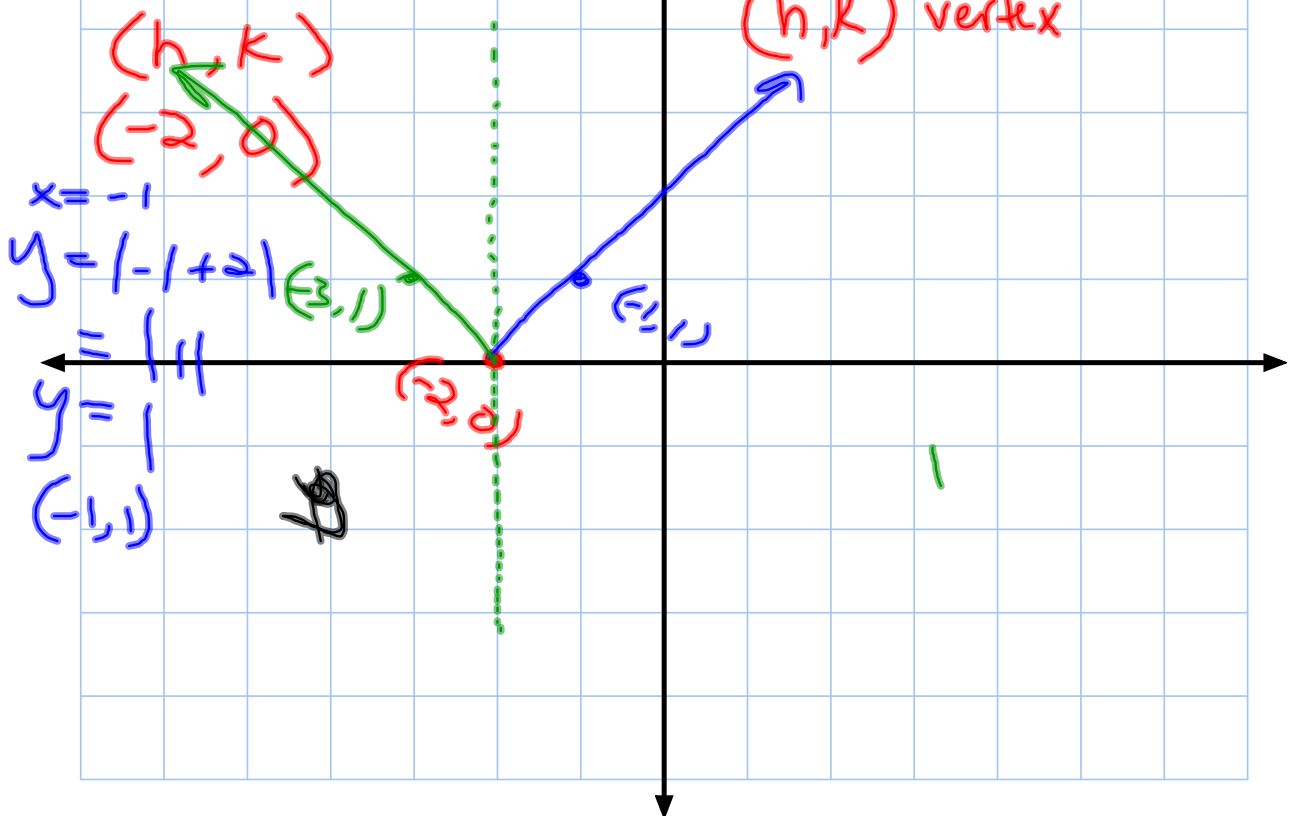
$$\begin{array}{r} 3x - 5y \geq 4 - 3x \\ \underline{-3x \quad -3x} \\ -5y \geq -3x + 4 \\ \underline{-5 \quad -5} \end{array}$$

$$y \leq \frac{-3x + 4}{-5}$$

④ $y = |x + 2|$

$y = a|x - h| + k$

(h, k) vertex



Show the Steps
of Plotting an Abs. Valve.

Linear Inequalities

Ex | $3x + 4y > 8$

Is $(\overset{x}{6}, \overset{y}{-3})$ a solution to the inequality?

$$3(6) + 4(-3) > 8$$

$$18 - 12 > 8$$

$$6 > 8$$

No!

Ex | $(-3, 5)$ $3x + 4y > 8$

$$3(-3) + 4(5) > 8$$

$$-9 + 20 > 8$$

$11 > 8$ yes!!

 ✓

Graphing Inequalities

$$y = -1$$

$$y > -1$$

dotted if
not = to

Shade above if greater than,

